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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/619,584	07/16/2003	Dong-Gyu Kim	SEC.310D3	7434
7590 07/26/2005		EXAMINER		
JONES & VO	LENTINE, L.L.P.		TON, MINI	H TOAN T
Suite 150	Islay Drive		ART UNIT	PAPER NUMBER
12200 Sunrise Valley Drive Reston, VA 20191			2871	

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

••	•	:	AK
	Application No.	Applicant(s)	
	10/619,584	KIM ET AL.	
Office Action Summary	Examiner	Art Unit	
	Toan Ton	2871	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	vith the correspondence addres	is
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of the od will apply and will expire SIX (6) MC tute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on 15	July 2005.		
·— · · · · · · · · · · · · · · · · · ·	his action is non-final.	•	
3) Since this application is in condition for allow		tters, prosecution as to the me	rits is
closed in accordance with the practice unde			
Disposition of Claims			
4)⊠ Claim(s) <u>36-41</u> is/are pending in the applicat	tion.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.		:	
6)⊠ Claim(s) <u>36-41</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers		•	
9) The specification is objected to by the Exami	iner.		
10) The drawing(s) filed on is/are: a) □ a	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	he drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	ection is required if the drawing	g(s) is objected to. See 37 CFR 1	.121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-1	52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume	ents have been received. ents have been received in riority documents have bee	Application No. <u>08/895447</u> .	ge
* See the attached detailed Office action for a li		ot received.	
	·	;	
Attachment(s)		; 	
1) Notice of References Cited (PTO-892)	4) Interviev	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date	•
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	08) 5) ☐ Notice o 6) ☐ Other: _	f Informal Patent Application (PTO-152	9

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 36, 38 and 39 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al (US 5969779).

Kim discloses a liquid crystal display device comprising: an insulating substrate 21; a first signal (gate) line including a gate electrode and formed on the insulating substrate; a second (repair) line 100/200 formed on the insulating substrate; a gate insulating layer 24 covering the first and second signal lines; a semiconductor layer 25 formed on the gate insulating layer; a third (data) line overlapping the first (gate) and the second (repair) signal lines (see at least abstract, lines 3-4); a drain electrode 28 and a source electrode 27 formed on the semiconductor layer, wherein the third(data) line is connected to the source electrode; a protective layer 29 having a contact hole exposing the drain electrode over the second signal line; the pixel electrode connected to the drain electrode through the contact hole; wherein the first (gate) and second (repair) signal lines are adapted to receive at least a same gate signal (inherent due to the repair line comprising line-portion that connected parallel to the gate line).

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Kim discloses the gate insulating layer 24 formed above the second (repair) signal line, i.e. the drain electrode extended over the second (repair) signal line.

Kim discloses a connection portion 300 connected to the second (repair) signal line.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 37, 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al (US 5969779), as applied to claims 36, 38-39, and further in view of Takemura (US 5757444) and Ito et al (US 5936685).

Forming the pixel electrode overlapping the bus lines is known in the art for yielding advantages such as large aperture (display area) ratio. Takemura/Ito discloses the pixel electrode overlapping bus lines for achieving advantages such as large aperture (display area) ratio.

Therefore, it would have been obvious to one of ordinary skill in the art to form the pixel electrode overlapping the bus lines (gate or/and data lines), as known in the art, for yielding advantages such as large aperture (display area) ratio.

3. Claims 36, 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawate (US 4368523) in view of Wakai (US 5327001).

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Kawate discloses a liquid crystal display device comprising (see at least Figures 2-3): an insulating substrate 100; a first signal (gate) line A1/A2/Am including a gate electrode and formed on the insulating substrate; a second signal line a1/a2/am formed on the insulating substrate; a gate insulating layer (not shown) inherently covering the first and second signal lines; a semiconductor layer (not shown) formed on the gate insulating layer; a third (data) signal line B1/B2/BM overlapping the first (gate) and the second (repair) signal lines, wherein the third(data) line is inherently connected to the source electrode; the first (gate) and second signal lines are adapted to receive at least a same gate signal [see at least col. 6, lines 22-24].

Basic/inherent elements such as a gate insulating layer, a semiconductor layer, a drain electrode, a source electrode, a protective layer having a contact hole exposing the drain electrode, a pixel electrode connected to the drain electrode through a contact hole are common and known in TFT (active matrix)-LCD devices. Wakai discloses a conventional TFT-LCD device comprising basic/inherent elements such as a gate insulating layer, a semiconductor layer, a drain electrode, and a source electrode. Wakai discloses the LCD device comprising a protective layer having a contact hole exposing the drain electrode, a pixel electrode connected to the drain electrode through a contact hole for achieving advantages such as minimizing/preventing short circuit to the device. Therefore, it would have been at least obvious to one of ordinary skill in the art to employ basic/inherent elements such as a gate insulating layer, a semiconductor layer, a drain electrode, a source electrode, a protective layer having a contact hole exposing the drain electrode, a pixel electrode connected to the drain electrode through a contact hole, as common and known in TFT (active matrix)-LCD devices, and also for achieving advantages such as minimizing/preventing short circuit to the device.

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Kawate discloses the second signal line comprising line-portions overlapping the third (data) signal line [see at least Figure 3].

Kawate discloses a connection portion 5 connected to the second signal line a1/a2/am.

4. Claims 37, 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawate in view of Wakai, as applied to claims 36, 38-39 above, and further in view of Takemura (US 5757444) and Ito et al (US 5936685).

See detailed explanations above pertaining to these above.

Response to Arguments

5. Applicant's arguments with respect to claims 36-41 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 22, 2005

TOANTON PRIMARY EXAMINED